

Atty Docket: IDF 1239A (4000-04901)

Patent

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently Amended) A computer comprising:

a central processor;

a memory electrically coupled to the central processor;

a bus interface electrically coupled to the central processor, the bus interface comprising a slot; and

an autonomous multi-services card at least partially inserted into the slot such that the autonomous multi-services card is in electronic communication with the bus interface, the autonomous multi-services card comprising:

a computer interface that is configured for coupling to the bus interface and that is operational to exchange data with the bus interface;

a telephone interface that is configured for coupling to a telephone connection and that is operational to exchange voice signals with the telephone connection;

a network interface that is configured for coupling to a network connection and that is operational to exchange the data and the voice signals with the network connection;

a communications processing system that is operational to control the exchange of the voice signals with the telephone connection and with the network connection without any control input from the central processor, and to control the exchange of the data with the bus interface and with the network connection;

communication paths that connect the communications processing system with the computer interface, the telephone interface, and the network interface; and

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a substrate that is configured for physical attachment to the slot and that is connected to the computer interface, the telephone interface, the network interface, the communications processing system, and the communication paths;

wherein the communications processing system operates independently of the central processor.

2. (Previously Presented) The computer of claim 1 wherein the network interface is further operational to exchange asynchronous transfer mode communications with the network connection and wherein the communications processing system is further operational to control the exchange of the asynchronous transfer mode communications with the network connection.
3. (Previously Presented) The computer of claim 1 wherein the network interface is further operational to exchange Ethernet communications with the network connection and wherein the communications processing system is further operational to control the exchange of the Ethernet communications with the network connection.
4. (Previously Presented) The computer of claim 1 wherein the network interface is further operational to exchange digital subscriber line communications with the network connection and wherein the communications processing system is further operational to control the exchange of the digital subscriber line communications with the network connection.
5. (Previously Presented) The computer of claim 1 wherein the network interface is further operational to exchange internet communications with the network connection and wherein the communications processing system is further operational to control the exchange of the internet communications with the network connection.

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6. (Previously Presented) The computer of claim 1 wherein the computer interface is further operational to exchange internet communications with the bus interface and wherein the communications processing system is further operational to control the exchange internet communications with the bus interface.
7. (Previously Presented) The computer of claim 1 wherein the telephone interface is further operational to exchange analog telephone signals with the telephone connection and wherein the communications processing system is further operational to control the exchange of the analog telephone signals with the telephone connection.
8. (Previously Presented) The computer of claim 1 wherein the network interface is further operational to exchange modem communications with the network connection and wherein the communications processing system is further operational to control the exchange of the modem communications with the network connection.
9. (Previously Presented) The computer of claim 1 wherein the modem communications are cable modem communications.
10. (Previously Presented) The computer of claim 9 wherein the modem communications are wireless modem communications.
11. (Previously Presented) The computer of claim 9 wherein the modem communications are telephone modem communications.
12. (Previously Presented) The computer of claim 1 wherein the network interface is further operational to automatically sense the protocol used over the network connection.
13. (Previously Presented) The computer of claim 1 wherein the computer interface is further operational to receive power from the bus interface.

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14. (Previously Presented) The computer of claim 1 further comprising a battery.
15. (Previously Presented) The computer of claim 1 further comprising a voice coder/decoder.
16. (Previously Presented) The computer of claim 1 wherein the telephone interface is operational to detect off-hook conditions, to detect on-hook conditions, to detect tones, to provide dial tone, to provide ring current, to provide ringback tones, and to provide busy tones.
17. (Previously Presented) The computer of claim 16 wherein the communications processing system is operational to control the telephone interface to generate and receive telephone calls.
18. (Previously Presented) The computer of claim 1 further comprising an enclosure, wherein the central processor, the memory, and the autonomous multi-services card are located within the enclosure.
19. (Previously Presented) The computer of claim 18 further comprising a battery.
20. (Previously Presented) The computer of claim 1 wherein:

the network interface is operational to exchange asynchronous transfer mode communications and internet communications with the network connection and wherein the communications processing system is further operational to control the exchange of the asynchronous transfer mode communications and internet communications with the network connection;

the telephone interface is further operational to exchange analog telephone signals with the telephone connection and wherein the communications processing system is further operational to control the exchange of the analog telephone signals with the telephone connection; and

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the computer interface is further operational to exchange the internet communications with the bus interface and wherein the communications processing system is further operational to control the exchange of the internet communications with the bus interface.

21. – 33. (Canceled)

34. (Previously Presented) The computer of claim 1 wherein the bus interface is a peripheral component interconnect or a small computer system interface.

35. (New) A computer system comprising:

a host computer comprising a host processor; and

an autonomous multi-services card positioned within the host computer, the autonomous multi-services card comprising a controller, a network interface, and a telephone interface;

wherein the controller operates independently of the host processor.

36. (New) The computer system of claim 35 wherein the controller does not communicate with the host processor.